

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> INSERT INTO Dept
2 VALUES(50, 'SHIPPING', 'CHENNAI');

1 row created.

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	SHIPPING	CHENNAI

SQL> ROLLBACK;

Rollback complete.

SQL> BEGIN
2 INSERT INTO Dept
3 VALUES(50, 'SHIPPING', 'CHENNAI');
4 END;
5 /

PL/SQL procedure successfully completed.

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	SHIPPING	CHENNAI

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SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE

```
2 V_Empno Emp.Empno%TYPE := &EnterEmpNo;
3 V_Ename Emp.Ename%TYPE := '&EnterEname';
4 V_Deptno Emp.Deptno%TYPE := &EnterDepto;
5 V_Job Emp.Job%TYPE := '&EnterJob';
6 V_MGR Emp.MGR%TYPE := &EnterMGRNo;
7 V_HireDate Emp.HireDate%TYPE := '&EnterHireDate';
8 V_Sal Emp.Sal%TYPE := &EnterSal;
9 V_Comm Emp.Comm%TYPE := &EnterComm;
10 BEGIN
11 INSERT INTO Emp(Empno, Ename, Deptno, Job, MGR, HireDate, Sal, Comm)
12 VALUES(V_Empno, V_Ename, V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal,
V_Comm);
13 END;
14 /
```

Enter value for enterempno: 7935
Enter value for enterename: SURESH
Enter value for enterdepto: 30
Enter value for enterjob: CLERK
Enter value for entermgrno: 7698
Enter value for enterhiredate: 13-NOV-14
Enter value for entersal: 2500
Enter value for entercomm: NULL

PL/SQL procedure successfully completed.

SQL> /

Enter value for enterempno: 7566
Enter value for enterename: SAMPATH
Enter value for enterdepto: 30
Enter value for enterjob: CLERK
Enter value for entermgrno: 7698
Enter value for enterhiredate: 13-NOV-14
Enter value for entersal: 2000
Enter value for entercomm: NULL

DECLARE

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.EMP_PRIMARY_KEY) violated
ORA-06512: at line 11

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SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpNo;
3  V_Ename Emp.Ename%TYPE NOT NULL := UPPER('&EnterEname');
4  V_Deptno Emp.Deptno%TYPE NOT NULL := &EnterDepto;
5  V_Job Emp.Job%TYPE NOT NULL := UPPER('&EnterJob');
6  V_MGR Emp.MGR%TYPE := &EnterMGRNo;
7  V_HireDate Emp.HireDate%TYPE NOT NULL := '&EnterHireDate';
8  V_Sal Emp.Sal%TYPE NOT NULL := &EnterSal;
9  V_Comm Emp.Comm%TYPE := &EnterComm;
10 V_MGRName Emp.Ename%TYPE;
11 BEGIN
12 IF V_Deptno IN(10,20,30,40) AND
13     V_MGR IN(7566, 7698, 7782, 7788, 7839, 7902) AND
14     V_Job IN('PRESIDENT', 'ANALYST', 'MANAGER', 'CLERK',
'SALESMAN') THEN
15 INSERT INTO Emp(Empno, Ename, Deptno, Job, MGR, HireDate, Sal, Comm)
16 VALUES(V_Empno, V_Ename, V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal,
V_Comm);
17 SELECT Ename, Deptno, Job, MGR, HireDate, Sal, Comm INTO V_Ename ,
V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
18 FROM Emp
19 WHERE Empno = V_Empno;
20 IF V_MGR IS NOT NULL THEN
21 SELECT Ename INTO V_MGRName
22 FROM Emp
23 WHERE Empno = V_MGR;
24 ELSE
25 SELECT Ename INTO V_MGRName
26 FROM Emp
27 WHERE MGR IS NULL;
28 END IF;
29 DBMS_OUTPUT.PUT_LINE('The Details of New Employee Record Inserted
are as follows...');
30 DBMS_OUTPUT.PUT_LINE('The Employee Number : '||V_Empno);
31 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_Ename));
32 DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
33 DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_Job));
```

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```
34 DBMS_OUTPUT.PUT_LINE('The Manager Number :  
'||NVL(TO_CHAR(V_MGR),'Cannot be Managed')||' , and his Name is :  
'||V_MGRName);  
35 DBMS_OUTPUT.PUT_LINE('The Joining Date :  
'||TO_CHAR(V_HireDate,'FMDD, Month Year'));  
36 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR  
'||TO_CHAR(V_Sal,'99,999.99')));  
37 DBMS_OUTPUT.PUT_LINE('The Commission Earned :  
'||NVL(TO_CHAR(V_Comm),'No Commission...Sorry!'));  
38 ELSE  
39 DBMS_OUTPUT.PUT_LINE('The Given Information Conflicts with the  
Master Data...');  
40 DBMS_OUTPUT.PUT_LINE('Please CROSS CHECK for Proper Data...');  
41 DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been  
Cancelled...');  
42 DBMS_OUTPUT.PUT_LINE('Thank You for Using the Services...');  
43 RETURN;  
44 END IF;  
45* END;
```

SQL> /

```
Enter value for enterempno: 7935  
Enter value for enterename: SURESH  
Enter value for enterdepto: 30  
Enter value for enterjob: CLERK  
Enter value for entermgrno: 7698  
Enter value for enterhiredate: 13-NOV-14  
Enter value for entersal: 2000  
Enter value for entercomm: NULL  
The Details of New Employee Record Inserted are as Follows...  
The Employee Number : 7935  
The Employee Name : Suresh  
The Department Number : 30  
The Designation : Clerk  
The Manager Number : 7698 , and his Name is : BLAKE  
The Joining Date : 13, November Twenty Fourteen  
The Basic Salary : INR 2,000.00  
The Commission Earned : No Commission...Sorry!
```

PL/SQL procedure successfully completed.

SQL> /

```
Enter value for enterempno: 7936  
Enter value for enterename: RAVI  
Enter value for enterdepto: 30  
Enter value for enterjob: SRCLERK  
Enter value for entermgrno: 7698  
Enter value for enterhiredate: 13-NOV-14  
Enter value for entersal: 2500
```

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Enter value for entercomm: NULL
The Given Information Conflicts with the Master Data...
Please CROSS CHECK for Proper Data...
Your INSERT Transaction has been Cancelled...
Thank You for Using the Services...

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> UPDATE Dept
2 SET Loc = 'DELHI'
3 WHERE Deptno = 40;

1 row updated.

SQL> ED
Wrote file afiedt.buf

1 UPDATE Dept
2 SET Loc = 'DELHI'
3* WHERE Deptno = 60
SQL> /

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0 rows updated.

SQL> ROLLBACK;

Rollback complete.

```
SQL> BEGIN
  2  UPDATE Dept
  3  SET Loc = 'DELHI'
  4  WHERE Deptno = 40;
  5  END;
  6  /
```

PL/SQL procedure successfully completed.

```
SQL> BEGIN
  2  UPDATE Dept
  3  SET Loc = 'DELHI'
  4  WHERE Deptno = 60;
  5  END;
  6  /
```

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> UPDATE Emp
  2  SET Sal = Sal + 1000
  3  WHERE Deptno = 30;
```

6 rows updated.

SQL> ROLLBACK;

Rollback complete.

```
SQL> BEGIN
  2  UPDATE Emp
  3  SET Sal = Sal + 1000
  4  WHERE Deptno = 30;
  5  END;
  6  /
```

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PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_EmpRecord Emp%ROWTYPE;
3  V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
4  V_Sal Emp.Sal%TYPE NOT NULL := &EnterNewSal;
5  V_Comm Emp.Comm%TYPE NOT NULL := &EnterNewComm;
6  V_MGRName Emp.Ename%TYPE;
7  BEGIN
8  SELECT * INTO V_EmpRecord
9  FROM Emp
10 WHERE Empno = V_Empno;
11 IF V_EmpRecord.Job IN('PRESIDENT','ANALYST','MANAGER','CLERK') THEN
12 DBMS_OUTPUT.PUT_LINE('The Original Details of Employee Number
Requested for Update are '||V_Empno);
13 DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_EmpRecord.Ename));
14 DBMS_OUTPUT.PUT_LINE('The Original Basic Salary : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
15 DBMS_OUTPUT.PUT_LINE('The Original Commission Earned :
'||NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
16 DBMS_OUTPUT.PUT_LINE('Mr. '||INITCAP(V_EmpRecord.Ename)||' Cannot be
Updated as he is not Eligible for Commission...');
17 DBMS_OUTPUT.PUT_LINE('The Updation of Data Was Not Sucessful...
Thank You...for using the Data Updation Services...');
18 ELSE
19 DBMS_OUTPUT.PUT_LINE('The Original Details of Employee Number
Requested for Update are '||V_Empno);
20 DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_EmpRecord.Ename));
21 DBMS_OUTPUT.PUT_LINE('The Original Basic Salary : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
22 DBMS_OUTPUT.PUT_LINE('The Original Commission Earned :
'||NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
23 DBMS_OUTPUT.PUT_LINE('The Updation of Data is Under Process...
Please Wait...');
24 UPDATE Emp
25 SET Sal = V_Sal,
26     Comm = V_Comm
```

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```
27 WHERE Empno = V_Empno;
28 DBMS_OUTPUT.PUT_LINE('The Updation of Data Was Sucessful... Thank
You...for using the Data Updation Services...');
29 SELECT * INTO V_EmpRecord
30 FROM Emp
31 WHERE Empno = V_Empno;
32 IF V_EmpRecord.MGR IS NOT NULL THEN
33     SELECT Ename INTO V_MGRName
34     FROM Emp
35     WHERE Empno = V_EmpRecord.MGR;
36 ELSE
37     SELECT Ename INTO V_MGRName
38     FROM Emp
39     WHERE MGR IS NULL;
40 END IF;
41 DBMS_OUTPUT.PUT_LINE('The Details of Updated Employee Record are as
Follows...');
42 DBMS_OUTPUT.PUT_LINE('The Employee Number : '||V_EmpRecord.Empno);
43 DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_EmpRecord.Ename));
44 DBMS_OUTPUT.PUT_LINE('The Department Number :
'||V_EmpRecord.Deptno);
45 DBMS_OUTPUT.PUT_LINE('The Designation :
'||INITCAP(V_EmpRecord.Job));
46 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'||NVL(TO_CHAR(V_EmpRecord.MGR), '"Cannot be Managed"')||' , and his Name
is : '||V_MGRName);
47 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'||TO_CHAR(V_EmpRecord.HireDate, 'FMDD, Month Year'));
48 DBMS_OUTPUT.PUT_LINE('The Basic Salary Updated is : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.sal, '99,999.99')));
49 DBMS_OUTPUT.PUT_LINE('The Commission Updated is :
'||V_EmpRecord.Comm);
50 END IF;
51* END;
SQL> /
Enter value for enterempno: 7654
Enter value for enternewsal: 4500
Enter value for enternewcomm: 650
The Original Details of Employee Number Requested for Update are 7654
The Employee Name : Martin
The Original Basic Salary : INR 1,250.00
The Original Commission Earned : 1400
The Updation of Data is Under Process... Please Wait...
The Updation of Data Was Sucessful... Thank You...for using the Data
Updation Services...
The Details of Updated Employee Record are as Follows...
The Employee Number : 7654
```

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The Employee Name : Martin
The Department Number : 30
The Designation : Salesman
The Manager Number : 7698 , and his Name is : BLAKE
The Joining Date : 28, September Nineteen Eighty-One
The Basic Salary Updated is : INR 4,500.00
The Commission Updated is : 650

PL/SQL procedure successfully completed.

SQL> /
Enter value for enterempno: 7566
Enter value for enternewsal: 3500
Enter value for enternewcomm: 500
The Original Details of Employee Number Requested for Update are 7566
The Employee Name : Jones
The Original Basic Salary : INR 2,975.00
The Original Commission Earned : No Commission...Sorry!
Mr. Jones Cannot be Updated as he is not Eligible for Commission...
The Updation of Data Was Not Successful... Thank You...for using the Data
Updation Services...

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DELETE FROM Dept
2 WHERE Deptno = 40;

1 row deleted.

SQL> DELETE FROM Dept
2 WHERE Deptno = 60;

0 rows deleted.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

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```
SQL> BEGIN
  2  DELETE FROM Dept
  3  WHERE Deptno = 40;
  4  END;
  5  /
```

PL/SQL procedure successfully completed.

```
SQL> BEGIN
  2  DELETE FROM Dept
  3  WHERE Deptno = 60;
  4  END;
  5  /
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  DECLARE
  2  V_EmpRecord Emp%ROWTYPE;
  3  V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
  4  V_MGRName Emp.Ename%TYPE;
  5  BEGIN
  6  SELECT * INTO V_EmpRecord
  7  FROM Emp
  8  WHERE Empno = V_Empno;
  9  IF V_EmpRecord.MGR IS NOT NULL THEN
 10  SELECT Ename INTO V_MGRName
 11  FROM Emp
 12  WHERE Empno = V_EmpRecord.MGR;
 13  ELSE
 14  SELECT Ename INTO V_MGRName
 15  FROM Emp
 16  WHERE MGR IS NULL;
 17  END IF;
 18  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number Being Deleted
are '||V_Empno);
 19  DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_EmpRecord.Ename));
 20  DBMS_OUTPUT.PUT_LINE('The Department Number :
'||V_EmpRecord.Deptno);
```

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```
21 DBMS_OUTPUT.PUT_LINE('The Designation :
'||INITCAP(V_EmpRecord.Job));
22 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'||NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')||', and his Name
is : '||V_MGRName);
23 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'||TO_CHAR(V_EmpRecord.HireDate,'FMDD, Month Year'));
24 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
25 DBMS_OUTPUT.PUT_LINE('The Commission Earned :
'||NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
26 DBMS_OUTPUT.PUT_LINE('The Deletion Under Process... Please
Wait...');
27 DELETE FROM EMP
28 WHERE Empno = V_Empno;
29 DBMS_OUTPUT.PUT_LINE('The Deletion of Data Was Sucessful... Thank
You...for using the Delete Services...');
30* END;
SQL> /
```

```
Enter value for enterempno: 7654
The Details of Employee Number Being Deleted are 7654
The Employee Name : Martin
The Department Number : 30
The Designation : Salesman
The Manager Number : 7698, and his Name is : BLAKE
The Joining Date : 28, September Nineteen Eighty-One
The Basic Salary : INR 1,290.00
The Commission Earned : 1400
The Deletion Under Process... Please Wait...
The Deletion of Data Was Sucessful... Thank You...for using the Delete
Services...
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> UPDATE Emp
2 SET Sal = Sal + 1000
3 WHERE Deptno = 30;
```

6 rows updated.

```
SQL> SPOOL OFF
```

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